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FINAL EPA File Copy

MEMORANDUM

Rec'd 9.3.93 JMJ

To: Jere Johnson, EPA Region IX
Work Assignment Manager

From: William E. Ritthaler, URS Consultants, Inc.

Subject: Completed Work

cc: Jeri Simmons, EPA Region IX Contract Officer
Travis Cain, EPA Region IX Project Officer

Attached is the following completed:

☑ PA: ☐ PA Review: ☐ SI: ☐ ESI:

Other: _____

Site Name: Hughes Aircraft Company
Latitude: 33° 52' 16" N
Longitude: 118° 00' 34" W
EPA ID#: CAD981451768 (4048)
City, County: Buena Park, Orange County
State Recommendation:
(for reviews only)

For EPA Use Only

EPA Further Action Determination: SEA

Lead Agency: F

Sign-Off Date: 9.23.93

Initials of Site Assessment Manager: JMJ 9/23/93

Document Screening Coordinator: JMJ 9/23/93

Chief, Site Evaluation and Grants Section: [signature] 9/23/93

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Copy

Purpose: CERCLA Preliminary Assessment

Site: Hughes Aircraft Company
7000 Village Drive
Buena Park, California 90620
Orange County

Site EPA ID Number: CAD981451768

URS Investigators: Tracy A. Faulkner
Samuel Won

Date of Inspection: June 1, 1993

Report Prepared By: Tracy A. Faulkner

Report Reviewed By: Ingrid Y. Chen

Review/Concurrence: William E. Batchelor

Report Date: July 23, 1993

Document Control No.: 62310.09.33.147 05.a1

Submitted To: Jere Johnson
EPA Region IX
Work Assignment Manager

1.0 Introduction

The U.S. Environmental Protection Agency (EPA), Region IX, under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA) has tasked URS Consultants, Inc. (URS) to conduct a Preliminary Assessment (PA) of the Hughes Aircraft Company facility in Buena Park, Orange County, California.

The purpose of the PA is to review existing information on the site and its environs to assess the threat(s), if any, posed to public health, welfare, or the environment and to determine if further investigation under CERCLA/SARA is warranted. The scope of the PA includes the review of information available from federal, state, and local agencies, and performance of an on-site reconnaissance visit.

Using these sources of information, the site is then evaluated using EPA's Hazard Ranking System (HRS) criteria to assess the relative threat associated with actual or potential releases of hazardous substances at the site. The HRS has been adopted by EPA to help set priorities for further evaluation and eventual remedial action at hazardous waste sites. The HRS is the primary method of determining a site's eligibility for placement on EPA's National Priorities List (NPL). The NPL identifies sites at which EPA may conduct remedial response actions. This report summarizes URS' findings of these preliminary investigative activities.

The Hughes Aircraft Company (Hughes) Buena Park facility was identified as a potential hazardous waste site after EPA Region IX Site Assessment Manager Rachel Loftin received a memo from Ecology and Environment, Inc. representative Art Mahoney on August 8, 1991. The memo stated that through the course of investigating another Hughes facility located at 1901 W. Malvern Avenue in Fullerton, California (EPA ID# CAD063109243), additional Hughes facilities in the Fullerton area should be evaluated under CERCLA. Mr. Mahoney noted that these additional facilities were listed in Resource Conservation and Recovery Information System (RCRIS) and recommended these facilities be included in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) (1). The Buena Park facility was entered into the CERCLIS database on August 20, 1991.

1.1 Apparent Problem

The apparent problem at the site was the generation of F003 waste as listed in Hughes' EPA Notification of Regulated Waste Activity form. According to 40 CFR Part 261, Subpart D, F003 is identified as spent non-halogenated solvents and all spent solvent mixtures/blends containing one or more non-halogenated solvents and 10 percent or more (by volume) of spent halogenated solvents used in degreasing operations (2,3).

2.0 Site Description

2.1 Site Location

The Hughes site is located at 7000 Village Drive in Buena Park, Orange County, California. The geographical coordinates for the Hughes site are latitude 33°52'16" North and longitude 118°00'34" West. The Hughes site is located in Township 3 South, Range 11 West, Section 35 (4). The site is relatively flat. Interstate 5 and the Southern Pacific

Railroad line are less than 500 feet north of the site. Land within 1 mile of the site is principally commercial property with some industrial areas (see Figure 1, Site Location Map) (5).

2.2 Site Description

The site is triangular and covers approximately 10 acres. There are seven buildings on-site and Hughes occupied five (Buildings 691, 692, 693, 696, 698) of the seven buildings. The former Hughes buildings are now occupied by several businesses and the entire site is a commercial business park. Table 1 provides a list of the former Hughes buildings and current street addresses (5).

Table 1
Hughes Buena Park Building Numbers and Street Addresses

Hughes Building ID Number	Current Street Address
691	7000 Village Drive
692	7150 Village Drive
693	7101 Village Drive
696	7051 Village Drive
698	7050 Village Drive

The bulk of the assembly activities were performed in Building 692. Building 698 was principally used for parts and supplies storage. No hazardous materials were reportedly stored in this building (6). The other Hughes buildings were used primarily as office spaces (see Figure 2, Facility Map) (5).

2.3 Operational History

Hughes leased the buildings from 1981 to 1993. The property was leased from the Teachers Insurance & Annuity Association of America through JMB Properties Co. (6,7).

Hughes occupied four of the five buildings, (Buildings 691, 693, 696, 698), from 1981 to 1991. Hughes extended the lease for the fifth building, Building 692, until 1993. JMB Properties Co. continues to serve as the leasing agent for the Association. Building 692 is under remodeling activities. All of the other buildings have undergone various stages of remodeling and are currently leased as offices. The site is now called The Village Business Park (5).

While Hughes operated at the site, personnel and equipment were dedicated to the assembly of command and control sections of torpedoes for the U.S. Navy. In support of these activities, the buildings were used as offices, computer labs, test and integration labs, electronic assembly facilities, and for parts and supplies storage. Building 692 was used for the bulk of the assembly activities (6). Specific information concerning assembly and testing operations is unavailable.

Source: U.S.G.S. 7.5 minute topographic map
Primary Quadrangle: Los Alamitos
Photorevised: 1981

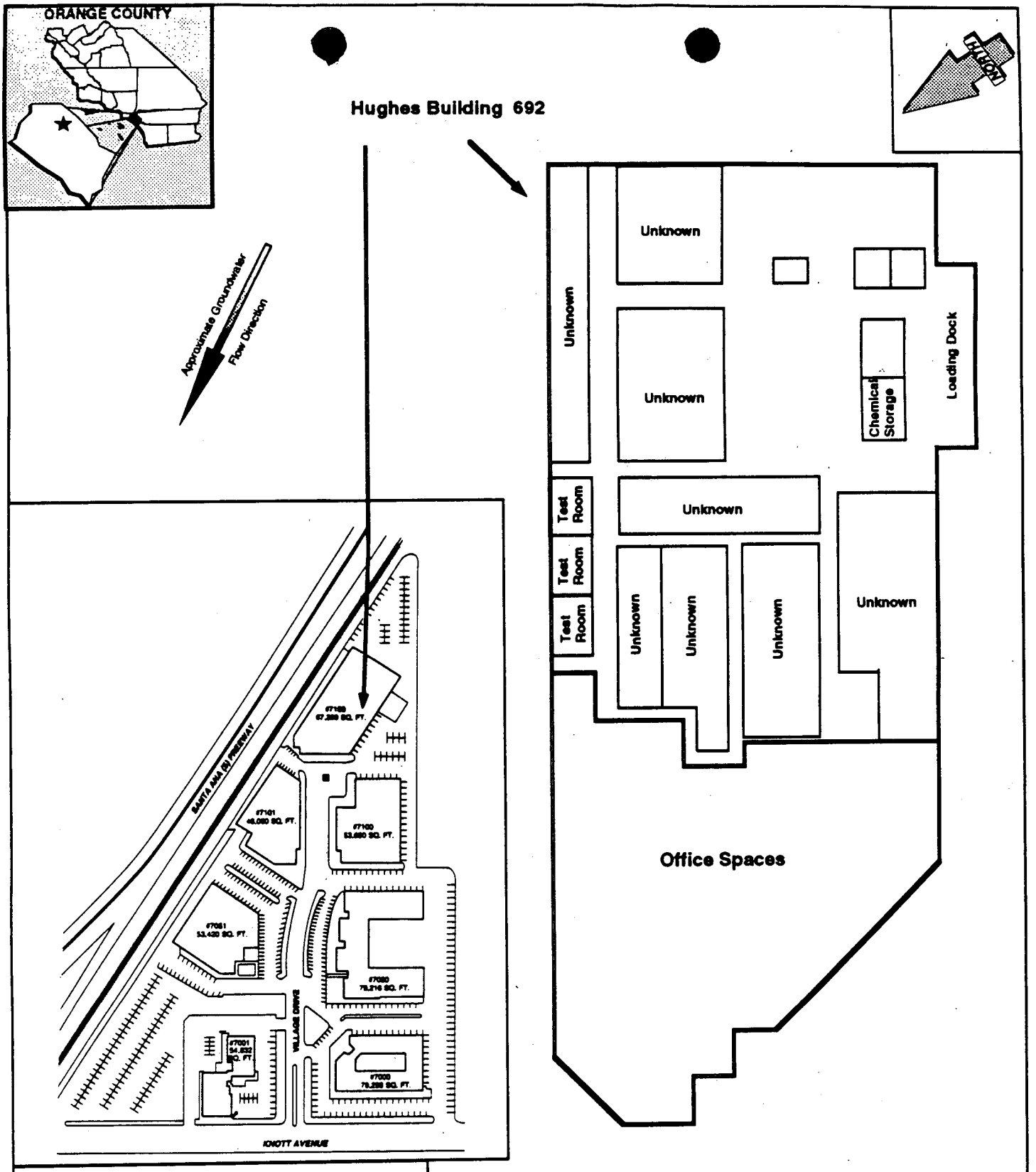
URS Consultants
100 California Street Suite 500
San Francisco, CA 94111
May 5, 1993

Site Location Map

Hughes Aircraft Company
7000 Village Drive, Buena Park, CA

FIGURE

1



Source: Hughes Aircraft Company Ground Systems Group - Detail Map; JMB Properties Company - Master Plan Map

Not to Scale

URS Consultants
100 California Street
San Francisco, CA 94111
June 22, 1993

Facility Map

Hughes Aircraft Company
7000 Village Drive, Buena Park, CA

FIGURE

2

Hazardous materials used at the site were Freon 113 (trichloro-1,2,2-trifluoroethane 1,1,2), isopropyl alcohol, tin-lead solder, rosin flux, methyl ethyl ketone, acetone, adhesives, coatings, and assorted lubricants. Freon 113 was used in a small (10-gallon) vapor degreasing operation. The other materials were used in electronic equipment assembly (8). Quantities of hazardous materials and wastes contained at the site are unavailable.

Hazardous wastes consisting of spent solvents were collected and temporarily stored in secured containers and placed into an enclosed chemical storage room in Building 692. Hazardous wastes were transported for recycling or disposal to permitted Treatment Storage and Disposal Facilities (TSDF) within 90 days of accumulation. TSDFs contracted by Hughes to receive such wastes include Chemical Waste Management and Rollins Environmental Management. The most recent removal of waste to a TSDF occurred in 1990 when approximately 6 tons of waste was transported and recycled or disposed of off-site. When the facility closed, a vapor degreaser was moved to Hughes' 1901 W. Malvern Avenue facility. The facility was occupied by office personnel from 1990, after the discontinuation of the assembly operations, until 1993 (8).

A site inspection conducted by URS on June 1, 1993 revealed that facility operations have ceased, and no hazardous materials or wastes remained in Building 692 or any other buildings at the site. There was no evidence of chemical spills at the site (5). Hughes reported that the site had no releases of hazardous materials or wastes to the environment (6).

2.4 Regulatory Involvement

Hughes notified EPA on February 26, 1986 that the 7000 Village Drive facility in Buena Park, California was a generator of F003 waste. According to 40 CFR Part 261, Subpart D, F003 is identified as spent non-halogenated solvents and all spent solvent mixtures/blends containing one or more non-halogenated solvents and 10 percent or more (by volume) of spent halogenated solvents used in degreasing operations (3). The site was entered into the RCRIS database as a large quantity generator on March 5, 1986. No Resource Conservation and Recovery Act (RCRA) investigations were performed at the site. There is no other information concerning RCRA involvement at the site (2).

Region 8 of the Regional Water Quality Control Board (RWQCB) has not been involved with this site. Hughes did not hold a National Pollutant Discharge Elimination System permit (9).

There has been no involvement with the California Environmental Protection Agency Department of Toxic Substances Control (Cal EPA DTSC) at this site. Cal EPA DTSC has no file on this site (10).

The South Coast Air Quality Management District (AQMD) has no record of permits for this facility; however, a Hughes representative states that two permits were held for the facility (11,6). One permit was for a vapor degreaser, and the second permit was for a standby generator. Hughes reports that the AQMD made at least one site inspection. No violations were issued to Hughes (6). It is suspected that the AQMD file for the Buena Park facility could be filed under Hughes' mailing address at 1901 West Malvern Ave. (where the main Orange County Hughes facility is located), instead of the facility address.

The Orange County Environmental Management Agency had no file on this site (12).

3.0 Hazard Ranking System Factors

The Hazard Ranking System (HRS) is a scoring system used to assess the relative threat associated with actual or potential releases of hazardous substances from sites. It is the principal mechanism EPA uses to place sites on the National Priorities List (NPL). URS has evaluated the following HRS factors relative to this site.

3.1 Sources of Contamination

There are currently no known hazardous materials stored or wastes generated at this site (5). Spent solvents such as methyl ethyl ketone, acetone, and trichloro-1,2,2-trifluoroethane 1,1,2 were generated while the facility was operating. These wastes were generated from cleaning small metal parts. The most recent removal of waste to a TSDF occurred in 1990 when approximately 6 tons of waste was transported and recycled or disposed of off-site. The site continued to be occupied by office personnel after the removal of wastes and discontinuation of the assembly activities (6).

3.2 Groundwater Pathway

3.2.1 Hydrogeologic Setting

This Hughes facility is located in the Orange County Groundwater Basin. The basin is divided into the upper, middle, and lower regional aquifer systems. The upper aquifer system extends to 600 feet below ground surface and includes stream terrace and older alluvial deposits. The middle aquifer system extends from the base of the upper aquifer system to an approximate depth of 1,400 feet. The lower aquifer system extends from the base of the middle aquifer system to the base of the fresh water zone. The base of the fresh water zone in the vicinity of the site is estimated to be approximately 2,900 feet below ground surface (13). The net annual precipitation of the Buena Park area is 3.49 inches (14).

3.2.2 Groundwater Targets

There are 41 municipal drinking water wells located within 4 miles of the site. These wells are operated by several water purveyors: the city of Anaheim, the Buena Park Department of Public Works, the city of Fullerton, the city of Garden Grove, the city of Cerritos, the city of Santa Fe Springs, the city of La Palma, Suburban Water Systems, and Southern California Water Company. Collectively, these purveyors deliver water to an estimated 139,123 people within 4 miles of the Hughes facility. The nearest well is approximately 0.5 miles southwest of the site (15).

3.2.3 Groundwater Conclusions

There are significant drinking water targets within 4 miles of the site; however, there has been no observed release of hazardous substances to groundwater. An observed release as defined by EPA Region IX is when the chemical analysis of an environmental sample from a site is found to be three or more times above the background concentration and some portion of the release is attributable to the site. No groundwater samples have been collected at the Hughes site.

3.3 Surface Water Pathway

3.3.1 Hydrologic Setting

This site is located in a 100-500 year floodplain (16). Surface water runoff flows southward (3). This site receives approximately 3.49 inches of rain annually and the 2-year, 24-hour rainfall for the site is 0.30 inches (14). The nearest surface water body is more than 2 miles from the site (4).

3.3.2 Surface Water Targets

There are no surface water intakes within 15 miles downstream of the site. The nearest sensitive environment is more than 15 miles from the site. There are no surface water targets associated with this site (15).

3.3.3 Surface Water Conclusions

There is no documented release of hazardous substances to surface water. There is no surface water within 2 miles of the site. There are no hazardous sources available to surface water.

3.4 Soil Exposure and Air Pathways

3.4.1 Physical Conditions

The Hughes site is completely paved (5). All assembly and test operations occurred in an enclosed building (6). The former Hughes buildings have been remodeled, and new tenants occupy the buildings (5).

3.4.2 Soil and Air Targets

There are no sensitive environments within 4 miles of the site. There are approximately 361,646 people residing within 4 miles of the site. The nearest resident is less than 0.25 miles southwest of the site (15).

3.4.3 Soil and Air Conclusions

The site is completely paved (5). There has been no observed release or potential to release to soil. (See Section 3.2.3 on page 6 for the definition of an observed release.) Spent solvents (methyl ethyl ketone and acetone) and Freon 113 (trichloro-1,2,2-trifluoroethane 1,1,2) are sources which had the potential of emitting contaminants into the air while the facility was operating.

4.0 Emergency Response Considerations

The National Contingency Plan [40 CFR 300.415 (b) (2)] authorizes the Environmental Protection Agency to consider emergency response actions at those sites which pose an imminent threat to human health or the environment. For the following reasons emergency actions do not appear to be necessary for this site:

- There are no sources of uncontrolled hazardous substances on-site.

5.0 Summary

The 7000 Village Drive facility was leased by Hughes Aircraft Company (Hughes) from early 1981 to early 1993. The property was leased from the Teachers Insurance & Annuity Association of America through JMB Properties Co. There are currently seven buildings at the site. Hughes leased five (Buildings 691, 692, 693, 696, 698) of the seven buildings. All of the office buildings were used as office spaces and computer labs except Building 698 which was used to store parts and supplies, and Building 692 where the bulk of the manufacturing activity took place.

Hughes notified EPA Region IX on February 26, 1986 that the 7000 Village Drive facility in Buena Park, California was a generator of F003 waste. According to 40 CFR Part 261, Subpart D, F003 is identified as spent non-halogenated solvents and all spent solvent mixtures/blends containing one or more non-halogenated solvents and 10 percent or more (by volume) of spent halogenated solvents used in degreasing operations. The site was entered into the Resource Conservation and Recovery Information System database as a large quantity generator on March 5, 1986.

Hazardous substances used in Building 692 include Freon 113 (trichloro-1,2,2-trifluoroethane 1,1,2), isopropyl alcohol, tin-lead solder, rosin flux, methyl ethyl ketone, acetone, adhesives, coatings, and assorted lubricants. The most recent removal of waste to a Treatment Storage and Disposal Facility (TSDF) occurred in 1990 when approximately 6 tons of waste was transported and disposed of off-site. When the facility was closed, a vapor degreaser was moved to Hughes' 1901 W. Malvern Avenue facility.

Wastes were stored in an enclosed chemical storage room in Building 692 prior to being removed to a TSDF, such as Chemical Waste Management or Rollins Environmental Management, for recycling or disposal.

A site inspection conducted by URS Consultants, Inc. on June 1, 1993 confirmed that facility operations had ceased, and all hazardous materials stored and wastes generated at this site had been removed. There is no record of hazardous material or hazardous waste releases to the environment. There are currently no wastestreams containing Comprehensive Environmental Response, Compensation, and Liability Act regulated hazardous substances present at the site to impact the groundwater, surface water, soil exposure, and air migration pathways.

The following are HRS factors pertinent to the Hughes site:

- There are no hazardous wastes or substances present at the site.
- There are no documented releases to the environment.
- There are no surface water bodies within 2 miles of the site.
- Former operations, including hazardous waste handling and storage, took place within one building on-site.

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IX

Site Name: Hughes Aircraft Company **EPA ID #:** CAD981451768

Alias Site Names:

City: Buena Park **County or Parish:** Orange County **State:** CA

Refer to Report Dated: July 23, 1993 **Report Type:** Preliminary Assessment

Report developed by: URS Consultants, Inc.

DECISION:

☒ **1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:**

☒ 1a. Site does not qualify for further remedial site assessment under CERCLA (Site Evaluation Accomplished - SEA)

☐ 1b. Site may qualify for further action, but is deferred to: ☐ RCRA ☐ NRC

☐ **2. Further Assessment Needed Under CERCLA**

2a. (optional) Priority: ☐ Higher ☐ Lower

2b. Activity Type ☐ PA ☐ ESI ☐ SI ☐ HRS evaluation

☐ Other_____

DISCUSSION/RATIONALE:

No wastes currently on site and no documented releases.

Report Reviewed and Approved by: J M Johnson **Signature:** J M Johnson **Date:** 9-23-93

Site Decision Made by: J M Johnson **Signature:** J M Johnson **Date:** 9-23-93

References

1. Mahoney, Art, Ecology and Environment, Inc., to Rachel Loftin, EPA Region IX, correspondence: Comprehensive Environmental Response, Compensation, and Liability Act File CAD063109243, August 8, 1993.

2. Harris, Ted, EPA Region IX, to Tracy Faulkner, B&V Waste Science and Technology Corp., correspondence: EPA Notification of Regulated Waste Activity Form 8700-12, April 19, 1993.

3. Code of Federal Regulations 40, Part 260 to 299, Pages 47-48, July 1, 1991.

4. U.S. Geological Survey, Topographic map Los Alamitos, California 7.5-minute Quadrangle, Photorevised 1981.

5. Faulkner, Tracy, B&V Waste Science and Technology Corp., and Samuel Won, URS Consultants, Inc., *Site Reconnaissance Interview and Observations Report* of Hughes Aircraft Company, Buena Park Facility, June 1, 1993.

6. Brewer, Paul, Hughes Aircraft Company, to Samuel Won, URS Consultants, Inc. correspondence: Hughes facilities and operations information, May 5, 1993.

7. Bone, Bertha, Orange County Office of the Assessor to Tracy Faulkner, B&V Waste Science and Technology Corp., correspondence: property ownership at 7000 Village Drive, Buena Park, California, May 4, 1993.

8. Brewer, Paul, Hughes Aircraft Company, and Tracy Faulkner, B&V Waste Science and Technology Corp., personal conversation, June 2, 1993.

9. Bernhardt, Carl, Regional Water Quality Control Board, and Tracy Faulkner, B&V Waste Science and Technology Corp., telephone conversation, June 2, 1993.

10. Yue, Aaron, Department of Toxic Substances Control, and Samuel Won, URS Consultants, Inc., telephone conversation, April 15, 1993.

11. Chief Prosecutor's Office, South Coast Air Quality Management District, to Tracy Faulkner, B&V Waste Science and Technology Corp., correspondence: printout of permits and notifications for Hughes facilities, April 20, 1993.

12. Hanson, Christine, Orange County Environmental Management Agency, to Tracy Faulkner, B&V Waste Science and Technology Corp., telephone conversation, April 28, 1993.

13. Anderson, Kurt, URS Consultants, Inc., *Hughes Aircraft Company, 651 Gilbert Street, Fullerton California, Preliminary Assessment Report*, January 22, 1992.

14. U.S. EPA Geographical Information System, printout, April 27, 1993.

15. Fowler, Chuck, Buena Park Department of Public Works, to Daniel Mahoney, URS Consultants, Inc., telephone conversation, June 23, 1993.

16. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Environmental Satellite Data and Information Service, National Climatic Center, *Comparative Climatic Data for the United States Through 1985*, Nashville, TN.

Appendix A
Contact Log and Reports

Contact Log

Facility Name: **Hughes Aircraft Company, Buena Park**
Facility ID#: **CAD981451768**

Contact	Affiliation	Phone #	Date	Information
Ted Harris	Environmental Protection Agency (EPA), Region IX; Resource Conservation and Recovery Act (RCRA)	(415) 774-2205	4/19/93	Mr. Harris said there is only a notification file on this site. URS received a copy of the notification on 4/19/93.
Germaine Bedard	Orange County Health Care Agency	(714) 834-3446	4/20/93	Ms. Bedard indicated that there is no file on this site.
Carl Bernhardt	Regional Water Quality Control Board (RWQCB), Region 8	(909) 782-4495	4/21/93	Mr. Bernhardt is the oversite manager for all Orange County Hughes facilities. Mr. Bernhardt indicated that there is no file on this site.
Paul Brewer	Hughes Aircraft Company	(714) 732-1376	4/21/93	See Contact Report.
Christine Hanson	Environmental Management Agency of Orange County	(714) 567-6363	4/28/93	Ms. Hanson said the Environmental Management Agency has no file on this site.
Paul Brewer	Hughes Aircraft Company	(714) 732-1376	5/4/93	See Contact Report.

Contact Log cont.

Facility Name: Hughes Aircraft Company, Buena Park
Facility ID#: CAD981451768

Contact	Affiliation	Phone #	Date	Information
Arvella James	JMB Properties Company	(310) 316-8533	5/18/93	JMB Properties Co. is the leasing agent for the property. URS arranged a site visit for 6/2/93. Ms. James said there will be no problem entering the site due to remodeling activities.
Chuck Fowler	City of Buena Park, Public Works Department	(714) 562-3651	6/22/93	The city of Buena Park receives 50 percent of its drinking water from groundwater. It serves 71,000 people with seven wells. The city is in a 100- to 500-year floodplain.
Ismile Noorbaksh	City of La Palma, Public Works Department	(714) 523-1140	6/22/93	The city of La Palma receives 75 percent of its drinking water from groundwater. It serves 16,750 people with two wells.

Contact Log cont.

Facility Name: **Hughes Aircraft Company, Buena Park**
Facility ID#: **CAD981451768**

Contact	Affiliation	Phone #	Date	Information
Gene Schaffer	Suburban Water Systems	(818) 966-2090	6/22/93	The city of La Miranda receives 100 percent of its drinking water from groundwater. One well serves 39,000 people.
Greg Wuister	City of Fullerton Water Department	(714) 738-6374	6/22/93	The city of Fullerton receives 70 percent of its drinking water from groundwater. It serves 140,000 people with 12 wells.
Barbara Robarge	City of Cerritos	(310) 860-0311	6/22/93	The city of Cerritos receives 40 percent of its drinking water from groundwater. The city serves 53,000 people with three wells.
Bruce Bowman	City of Anaheim Water Department	(714) 254-5100	6/22/93	The city of Anaheim receives 75 percent of its drinking water from groundwater. It serves 275,000 people with 30 wells.

Contact Log cont.

Facility Name: **Hughes Aircraft Company, Buena Park**
Facility ID#: **CAD981451768**

Contact	Affiliation	Phone #	Date	Information
Ron Hughes	City of Santa Fe Springs	(714) 868-0511	6/22/93	The city of Santa Fe Springs receives 50 percent of its drinking water from groundwater. It serves 18,500 people with four wells.
Tom Charles	City of Lakewood Water Department	(310) 866-9771	6/22/93	The city of Lakewood receives 100 percent of its drinking water from groundwater. It serves 66,000 people with 14 wells.
Terry Lane	City of Garden Grove, Water Division	(714) 741-5000	6/22/93	The city of Garden Grove receives 75 percent of its drinking water from groundwater. It serves 140,000 people with eleven wells.
Mary Oliphant	City of Long Beach Water Department	(310) 426-5451	6/22/93	The city of Long Beach receives 40 percent of its drinking water from groundwater. It serves 415,000 people with ten wells.

URS Consultants
Environmental Protection Agency
Site Assessment Program

Contact Report

Contact Made Concerning: **CAD981451768**

Hughes Aircraft Company
7000 Village Drive
Buena Park, California 90620
County of Orange

Agency or Affiliation Contact: **Hughes Aircraft Company**
Department: Safety, Health & Environmental Affairs
Address: P.O. Box 355; Mail Station 606-B027
City, State, Zipcode: Fullerton CA 93376
County: Orange

Representative Contact:

	1.	2.	3.
Name:	Paul Brewer	Paul Brewer	
Title:	Envr. Specialist	Envr. Specialist	
Contact Phone Number:	(714) 732-1376	(714) 732-1376	
Contact Date:	4/21/93	5/4/93	
Contact Facsimile Number:			

Contacted by URS Representative: Tracy A. Faulkner

Discussion:

4/21/93

URS contacted Paul Brewer as a follow-up to a previous contact made by Samuel Won of URS concerning the files of all Hughes sites currently under investigation by the U.S. Environmental Protection Agency Region IX Superfund Division.

Mr. Brewer indicated that information will be available the week of May 3, 1993. All information will be forwarded to the URS San Francisco office. Mr. Brewer is collecting data concerning the operational history of each facility and a description of the sites.

5/4/93

URS made a follow-up call to Paul Brewer to determine if the facility information had been sent to the San Francisco office. Mr. Brewer stated that the information will be mailed on 5/5/93. The information will describe the activities performed at each site, when Hughes occupied the site, what chemicals were stored or used at the site, and what wastes were generated. Mr. Brewer also said he will include facility maps, if available.

End Contact Report

This contact report was sent for confirmation by: ☐ Letter ☐ Phone ☐ Fax ☐ Other _____

This contact report was reviewed by: _____
(Signature and Date)

Appendix B
Site Reconnaissance Interview and Observations Report

URS Consultants
Preliminary Assessment
Site Inspection Team

Site Reconnaissance
Interview and Observation Report

Site Information — CAD981451768

Name:	**Hughes Aircraft Company**
Address:	7000 Village Drive
City, State, Zip Code:	Buena Park, California 90620
Phone Number:	(714) 732-1376
Contact Name:	Paul Brewer
Date of Site Visit:	6/1/93
URS Site Visit Team:	Tracy Faulkner Samuel Won

Site Representatives

Name :		*Title*
	None - Building Vacant	

Comments and Observations

URS Consultants Inc. (URS) representatives Tracy Faulkner and Samuel Won arrived at 7000 Village Drive at approximately 10:00 AM. The site is located in a commercial and light industrial area. Seven thousand Village Drive is one of seven buildings which comprise The Village Business Park, a commercial business park. Each of the seven buildings has its own address. Hughes Aircraft Company (Hughes) previously occupied five of the seven buildings. Hughes has vacated all of the buildings. It is unknown if the two buildings not occupied by Hughes were built after Hughes vacated the site. All of the buildings currently have tenants. URS entered 7000 Village Drive (former Hughes Building 691). An open house was being set up for prospective new tenants, except in Building 692 which was undergoing renovations. The building appeared to be newly renovated.

Based on the information supplied by Paul Brewer of Hughes, Building 691 and the other four buildings were used as offices, computer labs, test/integration labs, electronic assembly facilities, and for parts and supplies storage. The bulk of the assembly operation took place in Building 692. The total area of Building 692 is 53,420 square feet.

URS located Building 692 (address identified as 7150 Village Drive). The building was vacant except for five workers on-site performing remodeling/light construction activities. It was apparent that Hughes had recently vacated the building because the "Hughes" name was still on the identification sign outside of the building. URS toured the single story building which consisted of large and small open rooms. The rooms occupied two thirds of the western portion of the building. Offices occupied the rest of the building. URS did not look through the office spaces.

Comments and Observations (continued) *6/1/93*

There were no hazardous materials or waste left in any of the rooms. According to the information supplied by Mr. Brewer, an enclosed chemical storage room was located in Building 692. URS investigated all of the rooms and could not located a clearly identified former storage room. There was no evidence of chemical spills in any part of the building. An empty room adjacent to the loading dock had some yellow and black striped floor tape which could have indicated a small quantity chemical storage area.

One piece of equipment was left behind in three rooms adjacent to the north wall. A Contempo unit measuring approximately 8 feet by 4 feet was in each room. According to Mr. Brewer, these units were used to convert electrical power for testing purposes. There was one unit per room. They looked identical, but they were in various stages of disassembly.

All of the buildings appeared in good condition on the outside.

URS left the site at 11:00 AM.

Appendix C
Photo Log

URS Consultants
100 California Street
San Francisco, CA 94111

FIELD PHOTOGRAPHY LOG SHEET

CAD981451768

Hughes Aircraft Company
7000 Village Drive
Buena Park, CA 90620
Orange County

Photo Number: **01**
Date Taken: 6/1/93
Time Taken: 10:15 AM
Direction: East
Weather: Sunny
Photographer: S. Won

Photograph Description: This photo shows the front of the former Hughes Building 692. The building is one of seven buildings on-site which comprise a commercial business park.

CAD981451768

Hughes Aircraft Company
7000 Village Drive
Buena Park, CA 90620
Orange County

Photo Number: **02**
Date Taken: 6/1/93
Time Taken: 10:30 AM
Direction: North
Weather: Sunny
Photographer: S. Won

Photograph Description: This photo depicts the current remodeling activities in Building 692 for the new tenant. Fences are from the Hughes operations.

URS Consultants
100 California Street
San Francisco, CA 94111

FIELD PHOTOGRAPHY LOG SHEET

CAD981451768

Hughes Aircraft Company
7000 Village Drive
Buena Park, CA 90620
Orange County

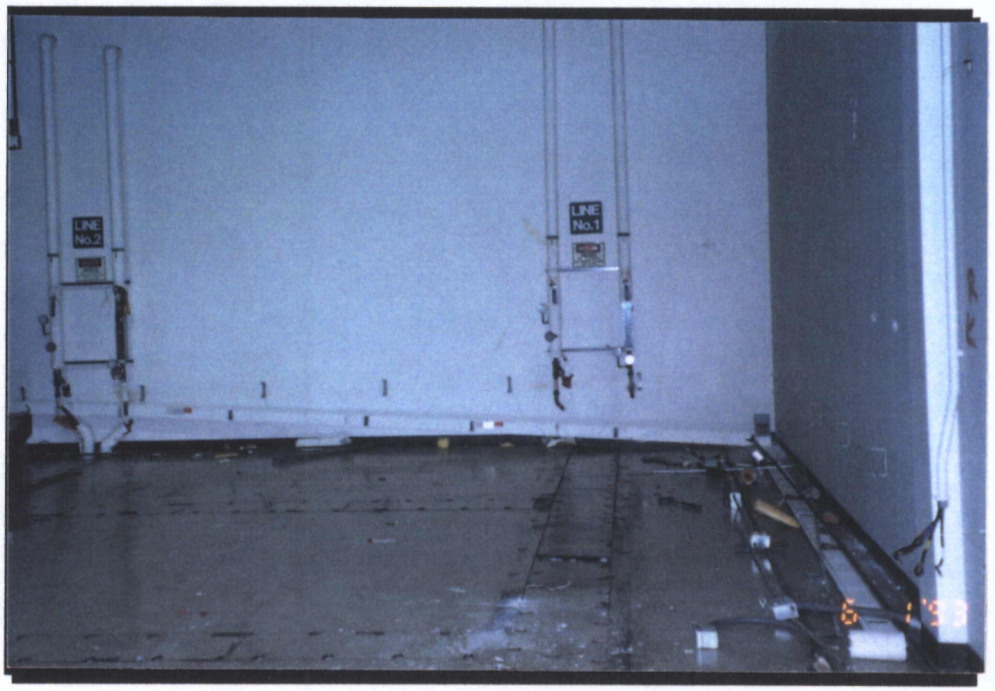


Photo Number: **03**
Date Taken: 6/1/93
Time Taken: 10:20 AM
Direction: East
Weather: Sunny
Photographer: S. Won

Photograph Description: This photo shows a former testing room with a raised floor. The floors were raised in order to accommodate wires and/or lines. Parts of the floor were removable to service the lines.

CAD981451768

Hughes Aircraft Company
7000 Village Drive
Buena Park, CA 90620
Orange County

Photo Number: **04**
Date Taken: 6/1/93
Time Taken: 10:40 AM
Direction: Northeast
Weather: Sunny
Photographer: S. Won

Photograph Description: This photo shows a piece of equipment left behind by Hughes. It is a Comptor which is used to change from one electrical output to another. This unit was used to test computer equipment. This room also had a raised floor which has been torn out.

End of Photo Log

Appendix D
Latitude/Longitude Worksheet

LATITUDE AND LONGITUDE CALCULATION WORKSHEET #1 WHEN USING CUSTOM RULER OR COORDINATOR (TM)

SITE: Hughes Aircraft Company NUMBER: CAD981451768

AKA: _____ SSID: _____

ADDRESS: 7000 Village Drive

CITY: Buena Park STATE: California ZIP CODE: 90620

SITE REFERENCE POINT: Front of Building 692; Street Address 7150 Village Drive

TOPO MAP Los Alamitos TOWNSHIP: 3S RANGE: 11W

SCALE: 1:24,000 MAP DATE: 1964 rev. 1981 SECTION: 35 1/4 ____ 1/4 ____ 1/4 ____ 1/4

MAP DATUM: ☒ 1927 ☐ 1983 MERIDIAN: San Bernardino

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 7.5' MAP:

LONGITUDE: 118 ° 00 ' 00 " LATITUDE: 33 ° 45 ' 00 "

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5 SUB-MAP:

LONGITUDE: 118 ° 00 ' 00 " LATITUDE: 33 ° 50 ' 00 "

CALCULATIONS: LATITUDE (7.5 MINUTE QUADRANGLE MAP)

A) ALIGN THE BOTTOM OF THE SCALE WITH BOTTOM OF GRID. ALIGN THE TOP OF THE SCALE WITH THE TOP OF GRID. POSITION EDGE OF RULER OVER SITE REFERENCE POINT WHILE KEEPING TOP AND BOTTOM ALIGNED.

B) READ TICS ON RULER AT 1OR 0.5 SECOND INTERVALS. (INTERPOLATE IF POSSIBLE)

2 ' 16 "

C) RECORD LATITUDE: 33°52'16" N

CALCULATIONS: LONGITUDE (7.5 MINUTE QUADRANGLE MAP)

A) ALIGN THE BOTTOM OF THE SCALE WITH THE RIGHT SIDE OF GRID. ALIGN THE TOP OF THE SCALE W ITH THE LEFT SIDE OF GRID. POSITION EDGE OF RULER OVER SITE REFERENCE POINT WHILE KEEPING TOP AND BOTTOM ALIGNED.

B) READ TICS ON RULER AT 1 SECOND INTERVALS. (INTERPOLATE IF POSSIBLE)

0 ' 34 "

C) RECORD LONGITUDE: 118°00'34"W

INVESTIGATOR: Tracy A. Faulkner DATE: 6/7/93

3954

CAD981451768

MEMORANDUM

mailed 2/23/94 CT

To: **Jere Johnson, EPA Region IX**
Work Assignment Manager

From: **William E. Ritthaler, URS Consultants, Inc.** WR

Subject: **Transmittal List for Hughes Aircraft Company**
Preliminary Assessment

URS suggests that the following persons/agencies receive a copy of the document referenced above:

- Hughes Aircraft Company
  Ground Systems Group, Bldg 606 MS B027
  P.O. Box 3310
  Fullerton, CA 92634
  Attn: Paul E. Brewer

- RWQCB Santa Ana Region 8
  2010 Iowa Avenue, Suite 100
  Riverside, CA 92507-2409
  Attn: Carl Bernhardt

- DTSC Region 4
  245 W. Broadway, Suite 350
  Longbeach, CA 90802
  Attn: Julie Johnson

- Teachers Insurance & Annuity Association of America
  c/o JMB Properties Co.
  21235 Hawthorne Blvd., Suite 205
  Torrance, CA 90503
  Attn: Arvella James

*** CONFIDENTIAL ***
***** PREDECISIONAL DOCUMENT *****

SUMMARY SCORESHEET FOR COMPUTING PROJECTED HRS SCORE

SITE NAME: Hughes Aircraft Company

CITY: Buena Park **COUNTY:** Orange

EPA ID #: CAD981451768 **EVALUATOR:** Tracy A. Faulkner

JOB #: 62310.09 **SCORE DATE:** July 2, 1993

LATITUDE: 33°52'16"N **LONGITUDE:** 118°00'34"W **T/R/S** 3S / 11W / 35

THIS SCORESHEET IS FOR A: ☒ PA ☐ SI ☐ ESI ☐ Other (Specify) _____

RCRA STATUS (check all that apply):
- ☒ Generator
- ☐ Small Quantity Generator
- ☐ Transporter
- ☐ TSDF
- ☐ Not listed in RCRA Database as of (date of print out) _____

STATE SUPERFUND STATUS

☐ BEP (date) _____ ☐ WQARF (date) _____

☒ No State Superfund Status (date) _____

	S pathway	S^2 pathway
Groundwater Migration Pathway Score (S_{gw})	0	0
Surface Water Migration Pathway Score (S_{sw})	*	*
Soil Exposure Pathway Score (S_s)	*	*
Air Migration Pathway Score (S_a)	2.166	4.692
$S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		4.692
$(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4$		1.173
$\sqrt{(S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2)/4}$		1.083

Pathways not assigned a score (explain):

* See HRS Rationale for Details

GROUNDWATER MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors

Likelihood of Release	Maximum Value	Projected Score	Rationale	Data Qual.
1. Observed Release	550	0	GW-1	H
2. Potential to Release				
2a. Containment	10	0	GW-2	E
2b. Net Precipitation	10	1	GW-3	E
2c. Depth to Aquifer	5	1	GW-4	E
2d. Travel Time	35	15	GW-5	E
2e. Potential to Release [lines 2a x (2b+2c+2d)]	500	0		
3. Likelihood of Release (higher of lines 1 or 2e)	550	0		
Waste Characteristics				
4. Toxicity/Mobility	a	10	GW-6	E
5. Hazardous Waste Quantity	a	10	GW-7	E
6. Waste Characteristics (lines 4x5, then use table 2-7)	100	3		
Targets				
7. Nearest Well	50	18	GW-8	E
8. Population [d]				
8a. Level I Concentrations	b	0	GW-9	H
8b. Level II Concentrations	b	0	GW-9	H
8c. Potential Contamination	b	2,523.60	GW-10	E
8d. Population (lines 8a+8b+8c)	b	2,523.60		
9. Resources	5	5	GW-11	E
10. Wellhead Protection Area	20	0	GW-12	H
11. Targets (lines 7+8d+9+10)	b	2,546.60		
Likelihood of Release				
12. Aquifer Score [(lines 3 x 6 x 11)/82,500] [c]	100	0		
Groundwater Migration Pathway Score				
13. Pathway Score (Sgw), (highest value from line 12 for all aquifers evaluated)	100	0 [c]		

Aquifer Evaluated Upper Aquifer

a Maximum value applies to waste characteristics category.
b Maximum value not applicable.
c Do not round to nearest integer.
d Use additional tables.

8. Population

Actual Contamination

Well Identifier	Contaminant Detected	Concentration (note units)	Benchmark	(A) Apportioned Population Well Serves	(B) Level* Multip.	(A x B)

Sum (AxB) Level I _____

Sum (AxB) Level II _____

* Multipliers
- Level I = 10
- Level II = 1

Potential Contamination

Distance (Miles)	Total Number of Wells Within Distance Ring	Total Population Served by Wells Within Distance Ring	Distance-Weighted Population Values "Other Than Karst" (Table 3-12)** (A)
0 - 1/4	0	0	0
> 1/4 to 1/2	1	3,888	3,233
> 1/2 to 1	1	3,888	1,669
> 1 to 2	8	37,780	9,385
>2 to 3	9	57,582	6,778
>3 to 4	6	43,256	4,171
		Sum (A)	25,236

Potential contamination = $\frac{\text{Sum (A)}}{10}$ = 2,523.60

** For drinking water wells that draw from a karst aquifer, see the Distance-Weighted Population Values for "Karst" in Table 3-12.

Aquifer Evaluated Upper Aquifer

AIR MIGRATION PATHWAY SCORESHEET

Factor Categories and Factors

Likelihood of Release	Maximum Value	Projected Score	Rationale	Data Qual.
1. Observed Release	550	0	A-1	E
2. Potential to Release [e]				
2a. Gas Potential	500	315	A-2	E
2b. Particulate Potential	500	0	A-3	E
2c. Potential to Release (higher of lines 2a and 2b)	500	315		E
3. Likelihood of Release (higher of lines 1 or 2c)	550	315		
Waste Characteristics				
4. Toxicity/Mobility	a	10	A-4	E
5. Hazardous Waste Quantity	a	10	A-5	E
6. Waste Characteristics (lines 4x5, then use table 2-7)	100	3		E
Targets				
7. Nearest Individual	50	7	A-6	E
8. Population [e]				
8a. Level I Concentrations	b	0	A-1	E
8b. Level II Concentrations	b	0	A-1	E
8c. Potential Contamination [e]	b	182.10	A-7	E
8d. Population (lines 8a+8b+8c)	b	182.10		E
9. Resources	5	0	A-8	E
10. Sensitive Environments [e]				
10a. Actual Contamination	c	0	A-8	E
10b. Potential Contamination	c	0	A-9	E
10c. Sensitiye Environments (lines 10a+10b)	c	0		E
11. Targets (lines 7+8d+9+10c)	b	189.10		
Air Pathway Migration Score				
12. Air Pathway Migration Score (Sa) [(lines 3x6x11)/82,500]	100	2.166 [d]		

a Maximum value applies to waste characteristics category.
b Maximum value not applicable.
c No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.
d Do not round yo nearest integer.
e Use additional tables.

2. Potential to Release

Gas Potential to Release

	Source Type (Name)	Gas Contaminant Factor Value (Table 6-3)	Gas Source Type Factor Value (Table 6-4)	Gas Migration Potential Factor Value (Table 6-7)	Sum	Gas Source Value
		(A)	(B)	(C)	(B+C)	A x (B+C)
1.	Container	7	28	17	45	315
2.						
3.						
4.						
				Gas Potential to Release Factor Value (Select the highest Gas Source Value)		315

Particulate Potential to Release

	Source Type (Name)	Particulate Contaminant Factor Value (Table 6-3)	Particulate Source Type Factor Value (Table 6-4)	Particulate Migration Potential Factor Value (Table 6-7)	Sum	Particulate Source Value
		(A)	(B)	(C)	(B+C)	A x (B+C)
1.						
2.						
3.						
4.						
				Particulate Potential to Release Factor Value (Select the highest Particulate Source Value)		

AIR PATHWAY CALCULATIONS

(Continued)

8. Particulate Potential to Release

Distance (miles)	Total Population Within Distance Ring	(A) Distance-Weighted Population Value (Table 6-17)
On a source (0)	0	0
>0 to 0.25	2,573	408
>0.25 to 0.5	3,549	282
>0.5 to 1.0	17,066	261
>1.0 to 2.0	60,108	266
>2.0 to 3.0	115,651	375
>3.0 to 4.0	162,699	229
	Sum of (A) =	1821.0

Air Potential Contamination Factor Value = $\frac{\text{Sum of (A)}}{10}$ = 182.10

10. Sensitive Environments

Wetland or Type of Sensitive Environment	(A) Sensitive Environment Rating Value (Table 4-23)	(B) Wetland Rating Value (Table 6-18)	(A+B)
-			
	Actual Contamination Factor Value [sum (A+B)]		

(Continued)

Potential Contamination

Wetland or Type of Sensitive Environment	(A) Sensitive Environment Rating Value (Table 4-23)	(B) Wetland* Rating Value (Table 6-18)	Distance (miles)	(DW) Distance Weights (Table 6-15)	DW x (A+B)

Potential Contamination Sensitive Environments Factor Value = $\frac{\text{Sum of DW x (A+B)}}{10}$ = _____

* Only assign a Wetland Rating Value once for each Wetland within a distance category.

HRS Rationale
Hughes Aircraft Company
CAD981451768

Groundwater Migration Pathway:

GW-1: An observed release of lead or any other known hazardous substances can not be established or projected because groundwater samples have not been collected at the Hughes site.

GW-2: All hazardous substances are contained in a controlled area inside a maintained and solid structure. There is no potential release to the environment. No runoff or leachate from any unsealed or ruptured container can be released to the environment.

GW-3: The net precipitation factor value for the Buena Park area is 1 (Figure 3-2).

GW-4: The depth to the shallow aquifer is approximately 300 feet below ground surface.

GW-5: The subsurface geology of the Buena Park area is silty sand and clays. Specific hydraulic conductivity data for this subsurface geology of this site are unknown. Sand and gravel subsurface geology from the surface to the shallow aquifer corresponds to a hydraulic conductivity of 10 E-4 centimeters per second. Based on a depth to groundwater of approximately 600 ft, the travel time factor is estimated at 15.

GW-6: The following hazardous substances were identified to be used at the site: isopropyl alcohol, tin-lead solder, rosin flux, methyl ethyl ketone, and acetone. Of these substances, only trichloro-1,2,2-trifluoroethane,1,1,2; methyl ethyl ketone, and acetone are listed in the Superfund Chemical Data Matrix database:

Substance	Toxicity	Mobility
Trichloro-1,2,2-Trifluoroethane,1,1,2-	1	0.01
Methyl ethyl ketone	10	1
Acetone	10	1

The highest toxicity/mobility factor is 10.

GW-7: The hazardous waste quantity is based on 6 tons of waste removed from the site in 1990. All 6 tons was assumed to be trichloro-1,2,2-trifluoroethane,1,1,2-; acetone; and/or methyl ethyl ketone.

Source	Tier	Units (lbs)	Division	Value Table 2-6
Container	B	12,000	5,000	1

The hazardous waste quantity was assigned a default value of 10.

GW-8: The nearest drinking water well is 0.50 miles from the site. This well is operated by the city of Buena Park.

GW-9: There are no observed releases to groundwater; therefore, there are no Level I or Level II concentrations.

GW-10: There are at least 25 active municipal drinking wells within 4 miles of the site. These wells are operated by several water purveyors: Buena Park Department of Public Works, city of La Palma, Suburban Water Systems, Southern California Water Company, city of Garden Grove, city of Santa Fe Springs, city of Fullerton, city of Cerritos, and the city of Anaheim, Collectively, these purveyors deliver water to an estimated 139,123 people. See HRS scoresheets for details.

GW-11: It is suspected that the goundwater supply is used for the irrigation of commercial food crops.

GW-12: There are no well head protection areas in EPA Region IX.

Air Migration Pathway

A-1: An observed release of trichloro-1,2,2-trifluoroethane,1,1,2-; methyl ethyl ketone; and acetone can not be established. Air samples have not been collected at the site to document a release.

A-2: Hazardous substances were stored in containers. The containers were placed in an intact/enclosed building. The air migration factor values for methyl ethyl ketone and acetone are each 17. This corresponds to a combined factor value of 17.

A-3: The potential for release is based on the gas potential. There are no substances which could be released through particulates.

A-4: The toxicities for methyl ethyl ketone and for acetone are each 10. The toxicity for trichloro-1,2,2-trifluoroethane,1,1,2- is 1. The air gas mobility factor for these constituents is 1.

A-5: The hazardous waste quantity factor value is based on 6 tons of waste removed from the facility in 1990.

Source	Tier	Units (lbs)	Division	Value (Table 2-6)
Container	B	12,000	5,000	1

Hazardous waste quantity was assigned a default value of 10.

A-6: The nearest individual is 0.25 miles from the site.

A-7: According the EPA GIS census data, there is a population of 194,634 within 4 miles of the site. See HRS scoresheets for population value details.

A-8: There are no resources or sensitive environments at the site.

A-9: There are no sensitive environments within 4 miles of the site.

Surface Water Migration Pathway

The surface water migration pathway was evaluated qualitatively, not quantitatively. There is no surface water within 2 miles of the site.

Soil Exposure Pathway

The soil exposure pathway was evaluated qualitatively not quantitatively. The site is completely paved. The source of hazardous substances are contained in an enclosed building.

EPA Potential Hazardous Waste Site Preliminary Assessment Form

Identification

State:	CERCLIS Number
California	CAD981451768

CERCLIS Discover Date: 08/20/91

1. General Site Information

Name:	Street:		
Hughes Aircraft Company	7000 Village Drive		
City:	**State:**	**Zip Code:**	**County:**
Buena Park	California	90620	Orange

Latitude:	Approximate Area of Site:	Status of Site:	County Code:
33°52'16" N	10 Acres	☐ Active ☐ NA	059
Longitude:	435,600 Square Ft.	☒ Inactive	**Cong. Dist.:**
118°00'34"W		☐ Not Specified	38

2. Owner/Operator Information

Owner:	Operator:
Teachers Assoc. c/o JMB Properties Co.	Hughes Aircraft Company
Street:	**Street:**
21235 Hawthorne Blvd., Suite 205	P.O. Box 355
City:	**City:**
Torrance	Fullerton

State:	Zip Code:	Telephone:	State:	Zip Code:	Telephone:
CA	90503	(310) 316-8533	CA	93376	(714) 732-1376

Type of ownership

- ☒ Private
- ☐ Federal Agency
- ☐ State
- ☐ Indian
- ☐ County
- ☐ Municipal
- ☐ Not Specified
- ☐ Other

How Initially Identified

- ☐ Citizen Complaint
- ☐ PA Petition
- ☐ State/Local Program
- ☒ RCRA/CERCLA Notification
- ☐ Federal Program
- ☐ Incidental
- ☐ Not Specified
- ☒ Other

3. Site Evaluator Information

Evaluator:	Agency/Organization:	Date Prepared:
Tracy Faulkner	URS Consultants	7/14/93
Street:	**City:**	**State:**
100 California Street	San Francisco	California
Name of EPA or State Agency Contact	**Street:**	
Jere Johnson	75 Hawthorne Street	
City:	**State:**	**Telephone:**
San Francisco	California	(415) 744-2345

4. Site Disposition (for EPA use Only)

Emergency Response/Removal Assessment Recommendations

- ☐ Yes
- ☐ No
- ☐ Date:

CERCLIS Recommendations:

- ☐ Higher Priority SI
- ☐ Lower Priority SI
- ☐ NFRAP
- ☐ RCRA
- ☐ Other
- ☐ Date:

Signature:

Names (typed)

Position:

CERCLIS Number: CAD981451768

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site (Check all that apply):

- ☐ Industrial
- ☒ Commercial
- ☐ Residental
- ☐ Forest/Fields
- ☐ Agriculture
- ☐ Mining
- ☐ DOD
- ☐ DOE
- ☐ DOI
- ☐ Other Federal Facility
- ☐ Other

Site Setting:

- ☐ Urban
- ☒ Suburban
- ☐ Rural

Years of Operation:

Beginning Year: 1981
Ending Year: 1993
☐ Unknown

Type of Site Operations (Check all that apply):

- ☒ Manufacturing
  - ☐ Lumber and Wood Products
  - ☐ Inorganic Chemicals
  - ☐ Plastic and/or Rubber Products
  - ☐ Paints, Varnishes
  - ☐ Industrial Organic Chemicals
  - ☐ Agricultural Chemicals (e.g., pesticides, fertilizers)
  - ☐ Miscellaneous Chemical Products (e.g., adhesives, explosives, ink)
  - ☐ Primary Metals
  - ☐ Metal Coating, Plating, Engraving
  - ☐ Metal Forging, Stamping
  - ☐ Fabricated Structural Metal Products
  - ☒ Electronic Equipment
  - ☐ Other Manufacturing
- ☐ Mining
  - ☐ Metals
  - ☐ Coal
  - ☐ Oil and Gas
  - ☐ Non-metalic Minerals
- ☐ Retail
- ☐ Recycling
- ☐ Junk/Salvage Yard
- ☐ Municipal Landfill
- ☐ Other Landfill
- ☐ DOD
- ☐ DOE
- ☐ DOI
- ☐ Other Federal Facility
- ☒ RCRA
  - ☐ Treatment, Storage, or Disposal
  - ☒ Large Quantity Generator
  - ☐ Small Quantity Generator
  - ☐ Subtitle D
    - ☐ Municipal
    - ☐ Industrial
  - ☐ "Converter"
  - ☐ "Protective Filer"
  - ☐ "Non- or Late Filer"
- ☐ Not Specified
- ☐ Other

Waste Generated:

- ☒ Onsite
- ☐ Offsite
- ☐ Onsite and Offsite

Waste Deposition Authorized By:

- ☐ Present Owner
- ☒ Former Owner
- ☐ Present and Former Owner
- ☐ Unauthorized
- ☐ Unknown

Waste Accessible to the Public:

- ☐ Yes
- ☒ No

Distance to Nearest Dwelling, School, or Workplace:

60 Feet

6. Waste Characteristics Information

Source Type: (Check all that apply)	Source Waste Quantity (include units)	Tier *:
☐ Landfill		
☐ Surface Impoundment		
☒ Drums	6 tons	W
☐ Tanks and non-Drum Containers		
☐ Chemical Waste Pile		
☐ Scrap Metal or Junk Pile		
☐ Tailings Pile		
☐ Trash Pile (open dump)		
☐ Land Treatment		
☐ Contaminated Ground Water Plume (unidentified source)		
☐ Contaminated Surface Water/Sediment (unidentified source)		
☐ Contaminated Soil		
☐ Other:		
☐ No Sources		

There are no sources of hazardous waste or materials currently at the site.

* C = Constituent, W = Wastestream, V = Volume, A = Area

General Types of Waste (check all that apply):

- ☐ Metals
- ☐ Organics
- ☐ Inorganics
- ☒ Solvents
- ☐ Paints/Pigments
- ☐ Laboratory/Hospital Waste
- ☐ Radioactive Waste
- ☒ Oily Waste
- ☐ Pesticides/Herbicides
- ☐ Acids/Bases
- ☐ Construction/Demolition Waste
- ☐ Municipal Waste
- ☐ Mining Waste
- ☐ Explosives
- ☒ Other adhesives, coatings

Physical State of Waste as Deposited (check all that apply):

- ☐ Solid
- ☐ Gas
- ☒ Liquid
- ☐ Powder
- ☐ Sludge

CERCLIS Number:
CAD981451768

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles:

☒ Yes
☐ No

Type of Drinking Water Wells Within 4 Miles (Check all that apply)

☒ Municipal
☐ Private
☐ None

Depth to Shallowest Aquifer:

120 Feet

Karst Terrain/Aquifer Present:

☐ Yes
☒ No

Is There a Suspected Release To Ground Water:

☐ Yes
☒ No

Have Primary Target Drinking Water Wells Been Identified:

☒ Yes
☐ No

If Yes, Enter Primary Target Population:

139,123 People

Nearest Designated Wellhead Protection Area:

☐ 0 - 1/4 Mile
☐ >1/4 Mile - 4 Miles
☒ None Within 4 Miles

List Secondary Target Population Served by Ground Water Withdrawn From:

0 - 1/4 Mile	0
> 1/4 - 1/2 Mile	0
> 1/2 - 1 Mile	0
> 1 - 2 Miles	0
> 2 - 3 Miles	0
> 3 - 4 Miles	0
Total Within 4 Miles	0

8. Surface Water Pathway

Type of Surface Water Draining Site and 15 Miles Downstream (Check all that apply)

☐ Stream ☐ River ☐ Pond ☐ Lake
☐ Bay ☐ Ocean ☒ Other None

Shortest Overland Distance From Any Source to Surface Water:

_____ Feet

Greater than 2 miles Miles

Is There a Suspected Release to Surface Water:

☐ Yes
☒ No

Site is Located in:

☐ Annual - 10 yr Floodplain
☐ > 10 yr - 100 yr Floodplain
☒ > 100 yr - 500 yr Floodplain
☐ > 500 yr Floodplain

Drinking Water Intakes Located Along the Surface Water Migration Path:

☐ Yes
☒ No

Have Primary Target Drinking Water Intakes Been Identified:

☐ Yes
☒ No

If Yes, Enter Population Served by Primary Target Intakes:

_____ People

List All Secondary Target Drinking Water Water Intakes:

Name	Water Body	Flow (cfs)	Population Served

Total within 15 Miles _____

Fisheries Located Along the Surface Water Migration Path:

☐ Yes
☒ No

Have Primary Target Fisheries Been Identified:

☐ Yes
☒ No

List All Secondary Target Fisheries:

Waterbody/Fishery Name	Flow (cfs)

CERCLIS Number: **CAD981451768**

8. Surface Water Pathway (continued)

Wetlands Located Along the Surface Water Migration Path:

☐ Yes
☒ No

Have Primary Target Wetlands Been Identified:

☐ Yes
☒ No

List Secondary Target Wetlands:

Water Body	Flow (cfs)	Frontage Miles

Other Sensitive Environments Located Along the Surface Water Migration Path:

☐ Yes
☒ No

Have Primary Sensitive Environments Been Identified:

☐ Yes
☒ No

List Secondary Target Sensitive Environments:

Water Body	Flow (cfs)	Sensitive Environment Type

9. Soil Exposure Pathway

Are People Occupying or Attending School or Day Care on or Within 200 Feet of Areas of Known or Suspected Contamination:

☐ Yes
☒ No

If Yes, Enter total Resident Population:

_____ People

Number of Workers Onsite:

☒ None
☐ 1 - 100
☐ 101 - 1,000
☐ > 1,000

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of the Site.

☐ Yes
☒ No

If Yes, List Each Terrestrial Sensitive Environment:

10. Air Pathway

Is There a Suspected Release to Air:

☐ Yes
☒ No

Enter Total Population on or Within:

Onsite	0
0 - 1/4 Mile	2,573
> 1/4 - 1/2 Mile	3,549
> 1/2 - 1 Mile	17,066
> 1 - 2 Miles	60,108
> 2 - 3 Miles	115,651
> 3 - 4 Miles	162,699
Total Within 4 Miles	361,646

Wetlands Located Within 4 Miles of the Site:

☐ Yes
☒ No

Other Sensitive Environments Located Within 4 Miles Of The Site:

☐ Yes
☒ No

List All Sensitive Environments Within 1/2 Mile of the Site:

Distance	Sensitive Environmental Type/Wetlands Area (acres)
Onsite	None
0 - 1/4 Mile	None
> 1/4 Mile - 1/2 Mile	None

3954

MEMORANDUM

To: Jere Johnson, EPA Region IX
Work Assignment Manager

From: William E. Ritthaler, URS Consultants, Inc.

Subject: Transmittal List for Hughes Aircraft Company
Preliminary Assessment

**(7000 Village Drive, Buena Park, California 90620 Orange County
Site EPA ID Number:CAD981451768)**

URS suggests that the following persons/agencies receive a copy of the document referenced above:

- Hughes Aircraft Company
  Ground Systems Group, Bldg 606 MS B027
  P.O. Box 3310
  Fullerton, CA 92634
  Attn: Paul E. Brewer

- RWQCB Santa Ana Region 8
  2010 Iowa Avenue, Suite 100
  Riverside, CA 92507-2409
  Attn: Carl Bernhardt

- DTSC Region 4
  245 W. Broadway, Suite 350
  Longbeach, CA 90802
  Attn: Julie Johnson

- Teachers Insurance & Annuity Association of America
  c/o JMB Properties Co.
  21235 Hawthorne Blvd., Suite 205
  Torrance, CA 90503
  Attn: Arvella James

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 9-30-88.
GSA No. 0246-EPA-OT

CAX000127308 360061230003
HUGHES AIRCRAFT COMPANY
7000 VILLAGE DRIVE
BUENA PARK CA 90620

Document Control No. 023
File No. 62310.09
File Code 08
cc: Faulkner (ori)
Date Received 4/19/93

EPA No

For Official Use Only

	Installation's EPA ID Number	T/A C	Approved	Date Received (yr. mo. day)
C F	CAD 98-145-1768	1		5 MAR 1986

I. Name of Installation

Hughes Aircraft Company

II. Installation Mailing Address

Street or P.O. Box: 1901 W Malvern Ave FU606 B027

City or Town: Fullerton | State: Ca | ZIP Code: 92634

III. Location of Installation

Street or Route Number: 7000 Village Dr

City or Town: Buena Park | State: CA | ZIP Code: 90620

IV. Installation Contact

Name and Title (last, first, and job title): Taylor Gregory

Phone Number (area code and number): 714 732 4284

V. Ownership

A. Name of Installation's Legal Owner: SAME

B. Type of Ownership (enter code): P

VI. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activity

- [X] 1a. Generator
- [ ] 1b. Less than 1,000 kg/mo.
- [ ] 2. Transporter
- [ ] 3. Treater/Storer/Disposer
- [ ] 4. Underground Injection
- [ ] 5. Market or Burn Hazardous Waste Fuel (enter 'X' and mark appropriate boxes below)
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner

B. Used Oil Fuel Activities

- [ ] 6. Off-Specification Used Oil Fuel (enter 'X' and mark appropriate boxes below)
  - [ ] a. Generator Marketing to Burner
  - [ ] b. Other Marketer
  - [ ] c. Burner
- [ ] 7. Specification Used Oil Fuel Marketer (or On site Burner) Who First Claims the Oil Meets the Specification

059 orange

VII. Waste Fuel Burning: Type of Combustion Device *(enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)*

- [ ] A. Utility Boiler
- [ ] B. Industrial Boiler
- [ ] C. Industrial Furnace

VIII. Mode of Transportation *(transporters only — enter 'X' in the appropriate box(es)*

- [ ] A. Air
- [ ] B. Rail
- [ ] C. Highway
- [ ] D. Water
- [ ] E. Other *(specify)*

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

- [ ] A. First Notification
- [ ] B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number: CAX000127308

ID — Official Use Only

C													T/A	C
W														1

X. Description of Hazardous Wastes *(continued from front)*

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
F003					
7	**8**	**9**	**10**	**11**	**12**

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	**38**	**39**	**40**	**41**	**42**
43	**44**	**45**	**46**	**47**	**48**

D. Listed Infectious Wastes. Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40* CFR *Parts 261.21 — 261.24)*

☐ 1. Ignitable *(D001)* ☐ 2. Corrosive *(D002)* ☐ 3. Reactive *(D003)* ☐ 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
Gregory S. Taylor	Gregory S. Taylor – Engineer	2/26/86

Hughes Aircraft

Population

- 1-100
- 101-1,000
- 1,000-5,000
- 5,000-10,000
- 10,000-13,000

- Drinking Water Supply Wells
- Endangered Species
- Streams
- County Boundary

EPA

Produced by the EPA GIS Center, April 27, 1993, for the Site Evaluation Section.